

Amendments to the Claims:

Please amend claims 1 and 5 as follows.
Please add new claims 11 and 12.

Listing of Claims:

1. (Currently Amended) A vehicle data bus system comprising:

a data bus which connects a plurality of bus users in data communication with one another; and

locating apparatus, including a locating module connected as one of the bus users, ~~and said locating module being configured to receive wheel speed data~~ and to ~~acquire~~ determine vehicle position data, direction of travel angle data, and travel speed data and to output this ~~acquired~~ determined data onto the data bus; wherein,

the locating module has a locating computing unit and a locating sensor system which comprises at least a GPS receiver with associated GPS antenna, and a gyro data-determining means;

the locating module is configured to receive wheel speed data and forward/backward direction of travel data via the data bus;

the locating module is further configured to ~~receive~~ determine ~~forward/backward direction of travel data via the data bus, and to acquire~~ altitude position data and to output ~~acquired~~ said altitude position data onto the data bus; and

the gyro data-determining means comprises one of gyro data-sensing means in the form of a gyroscope, and means for the bus-end reception and evaluation of gyro data of a travel dynamics/traction control system.

2. (Original) The vehicle data bus system according to Claim 1, further comprising means for providing location precision classification information which indicates a degree of unreliability of calculated position data.

3. (Original) The vehicle data bus system according to Claim 2, wherein the locating precision classification is output onto the data bus.

4. (Original) The vehicle data bus system according to Claim 1, wherein the locating module contains an integrated GPS antenna.

5. (Currently Amended) The vehicle data bus system according to Claim 1, further comprising an additional bus user in the form of a navigation unit, which receives vehicle position data from the locating module via the data bus, and by means of a map-matching process ~~acquires~~ determines position correction data, which it inputs into the data bus in order to feed it back to the locating module.

6. (Original) The vehicle data bus system according to Claim 5, wherein the navigation unit determines a corrected, precise vehicle position with a new locating precision classification and outputs it onto the data bus.

7. (Original) The vehicle data bus system according to Claim 5, wherein the navigation unit determines accompanying travel network information and outputs it onto the data bus.

8. Cancelled.

9. Cancelled.

10. (Previously Presented) The vehicle data bus system according to Claim 1, wherein:

the locating module is part of a further bus user; and

the locating computing unit is used by the further bus user, for additional tasks.

11. (New) A vehicle data bus system comprising:

a data bus which connects a plurality of bus users in data communication with one another; and

locating apparatus, including a locating module connected as one of the bus users, said locating module being configured to determine vehicle position data, direction of travel angle data and travel speed data, and to output this determined data onto the data bus; wherein,

the locating module has a locating computing unit and a locating sensor system which comprises at least a GPS receiver with associated GPS antenna and gyro data-determining means;

the locating module is configured to receive wheel speed data and forward/backward direction of travel data via the data bus;

the locating module is further configured to determine altitude position data and to output acquired altitude position data onto the data bus; and

the gyro data-determining means comprises one of gyro data-sensing means in the form of a gyroscope, and means for the bus-end reception and evaluation of gyro data of a travel dynamics/traction control system; and

the bus system includes at least one telematics service unit coupled thereto as a bus user, which uses data acquired from the locating module or from a navigation unit.

12. (New) A vehicle data bus system comprising:

a data bus which connects a plurality of bus users in data communication with one another; and

locating apparatus, including a locating module connected as one of the bus users, said locating module being configured to determine vehicle position data, direction of travel angle data and travel speed data, and to output this determined data onto the data bus; wherein,

the locating module has a locating computing unit and a locating sensor system which comprises at least a GPS receiver with associated GPS antenna and gyro data-determining means;

the locating module is configured to receive wheel speed data and forward/backward direction of travel data via the data bus;

the locating module is further configured to determine altitude position data and to output acquired altitude position data onto the data bus; and

the gyro data-determining means comprises one of gyro data-sensing means in the form of a gyroscope, and means for the bus-end reception and evaluation of gyro data of a travel dynamics/traction control system; and

said altitude position data from the locating module is supplied via said data bus to an engine or gear box control as a further bus user, which uses said altitude position data in place of data from a separate altitude sensor.